

Initial Deliverability  
Test

Form C-122-A  
Revised April 20, 1955

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA  
EXCEPT BARKER DOME STORAGE AREA)

Pool South El Paso Formation Pictured Cliff County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease Stacey Well No. 3-8  
Unit 1 Sec. 33 Twp. 38 Rge. 9 Pay Zone: From 2978 To 3006  
Casing: OD 5 1/2 WT. 15.5 Set At 2059 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2977  
Produced Through: Casing 1 Tubing \_\_\_\_\_ Gas Gravity: Measured .645 Estimated \_\_\_\_\_  
Date of Flow Test: From 4/30 To 5/3/57 \* Date S.I.P. Measured 11/19/56 (10 days)  
Meter Run Size 4 Orifice Size 1.25 Type Chart Sp. R. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (a)  
Flowing tubing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (b)  
Flowing meter pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken):  
Normal chart reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (d)  
Square root chart reading (\_\_\_\_\_) <sup>2</sup> x spring constant \_\_\_\_\_ = \_\_\_\_\_ psia (d)  
Meter error (c) - (d) or (d) - (c) \_\_\_\_\_ ± \_\_\_\_\_ = \_\_\_\_\_ psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing \_\_\_\_\_ = \_\_\_\_\_ psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading (7.10) <sup>2</sup> x sp. const. 10 \_\_\_\_\_ = \_\_\_\_\_ psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = \_\_\_\_\_ psia (i)  
Wellhead casing shut-in pressure (Dwt) 703 psig + 12 = 715 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 703 psig + 12 = 715 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = \_\_\_\_\_ psia (l)  
Flowing Temp. (Meter Run) 55 °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = \_\_\_\_\_ psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{262}{1.1020} = 237$  MCF/day  
(Integrated)

DELIVERABILITY CALCULATION

D = Q  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{262}{1.1020} = 237$  MCF/day.

SUMMARY

P<sub>c</sub> = 715 psia  
Q = 262 Mcf/day  
P<sub>w</sub> = 510 psia  
P<sub>d</sub> = 355 psia  
D = 237 Mcf/day

Company El Paso Natural Gas Company  
By Original  
Title Louis D. Gallows  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

- \* This is date of completion test: 3000
- \* Meter error correction factor: 1.07

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(FQ) <sup>2</sup>	(FQ) <sup>2</sup> (1-e <sup>-S</sup> )	P <sub>t</sub> <sup>2</sup>	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
			R <sup>2</sup>	(Column 1)		

B - 250 = 136



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